### **United States Department of Agriculture**



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## Transmitted via email

March 1, 2010

NATIONAL ENGINEERING FIELD HANDBOOK 210-VI PART 650, MN Notice 14

SUBJECT: ENG – NEH PART 650, ENGINEERING FIELD HANDBOOK (EFH), CHAPTER 2-ESTIMATING RUNOFF; CHAPTER 3- HYDRAULICS; CHAPTER 5-PREPARATION OF ENGINEERING PLANS; AND CHAPTER 7- GRASSED WATERWAYS.

Purpose. To transmit Minnesota supplement revisions to the EFH.

Effective Date. Effective upon receipt

The Minnesota Hydrology Guide is obsolete per MN Bulletin 210-10-2. New policy on Minnesota hydrology procedures was issued as a MN supplement to the National Engineering Manual (NEM). These result in changes to the MN supplements to EFH Chapter 2.

The Structure Flood-Routing Methods in Chapter 3 are obsolete and replaced by Short-Cut Procedure for Design of Structures with Temporary Storage (24 hour Duration storms).

The MN Engineering Procedures are being pulled from Chapter 5 and being placed in the back of the chapters they correspond to.

The Conservation Engineering Division issued a revised EFH Chapter 7 in December 2007. These updates require changes in the Minnesota supplements.

Filing Instructions. See page 2.

JENNIFER C. HEGLUND Acting State Conservationist

Attachments

DIST: EFH

# Filing Instructions (cont)

- Place the MN Indexes at the beginning of the chapters (remove previous MN Indexes),
- File this MN Supplement dated March 2010 behind the corresponding pages of the National Chapter, and
- File all MN Engineering Procedures in the back of the chapters they pertain to.

# Chapter 2

Remove all MN supplements except pages 2-22.3 through 2-22.8, 24-Hour Rainfall Maps, dated November 1992. Maps are also available on the MN NRCS web site at <a href="http://www.mn.nrcs.usda.gov/technical/eng/Hydrology\_Misc.html#EFH%20Chapter%202%20S">http://www.mn.nrcs.usda.gov/technical/eng/Hydrology\_Misc.html#EFH%20Chapter%202%20S</a>.

**Insert** the new MN supplements: Estimating Runoff and Peak Discharges page 2-1(1), and Hydrologic Soil-Cover Complexes page 2-4(1).

# Chapter 3

Remove MN supplement on Structure Flood-Routing Methods, dated November 1992, pages 3-113 through 3-115.

**Insert** Short-Cut Procedure for Design of Structures with Temporary Storage-24 Hour Duration Storms page 3-112(1).

# Chapter 5

Remove and discard all MN Engineering Procedures.

# Chapter 6

Insert MN Engineering Procedure—Side Inlet Pipe Structures to Open Ditches.

## Chapter 7

Insert the following MN Supplements to the new National Chapter dated December 2007: Engineering Field Tools—Modified Trapezoidal Sections, page 7-4(1); Out-of-Bank Flow Design Procedure, page 7-13(1), and MN Engineering Procedure—Grassed Waterways.

#### Chapter 8

Insert MN Engineering Procedure—Terraces and Water and Sediment Control Basins.

## Chapter 9

**Insert** the new National chapter dated September 2009. File the MN Engineering Procedure—Diversions behind the chapter.

## Chapter 11

Insert MN Engineering Procedures—Embankment Reservoirs and Structures and Excavated Ponds (Stockwater and Wildlife).